MECHANISMS OF CARCINOGENESIS
A Research Conference sponsored by
Federation of American Societies for Experimental Biology (FASEB)
9650 Rockville Pike, Bethesda, MD 20814
(Dr. Robert W. Krauss, Executive Director)

Dates: July 24 to July 29, 1983
Location: Vermont Academy, Saxton's River, Vermont
Chairpersons: Douglas R. Lowy and Paul E. Neiman

(Monday a.m.)
Introduction to the Conference: Douglas Lowy, Co-Chairperson
Session I: Stages of Cellular Transformation

I. Bernard Weinstein (Chairperson): Cellular targets of chemical carcinogens
Victor Ling: The Dynamics of metastatic heterogeneity
Nancy Colburn: The Role of specific membrane and gene-level changes in the mechanism of tumor promotion: Insights gained from the use of tumor promoter resistant variant cells
Thomas Slaga: *

(Monday p.m.)
Session II: Viral Transforming Genes and their Cellular Homologs

J. Michael Bishop (Chairperson): Viral and cellular oncogenes of avian retroviruses
Hidesaburo Hanafusa: Structural and functional comparisons between viral and cellular oncogenes
J. Thomas Parsons: Analysis of site directed mutagenesis of viral oncogenes
Robert Eisenman: *
Denise Galloway: Mechanism of transformation by Herpes viruses

(Tuesday a.m.)
Session III: Cellular Controls and Carcinogenesis

Harold Weintraub (Chairperson): Single-stranded regions in the control of gene expression
Ira Pastan: *
Robert Fuchs: Mechanisms of mutagenesis induced by the chemical carcinogen N-Acetoxy-N-2-Acetylaminofluorene.
Alan Poland: *

(Tuesday p.m.)
Session IV: Tumor Oncogenes

Robert Weinberg (Chairperson): Human oncogenes
Geoffery Cooper: Transforming genes of tumors
Michael Wigler: Tumor oncogenes
Mariano Barbacid: Oncogenes in human tumors

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(Wednesday a.m.)

Session V: Tumor Induction by Leukemia Viruses

Paul Neiman (Chairperson): Transforming genes in retrovirus-induced B-cell lymphomas
William Hayward: The myc oncogene and tumor formation
Robert Gallo: The involvement of a human retrovirus (HTLV) in human malignancies
Harold E. Varmus: *

(Wednesday p.m.)

Session VI: Chromosome Structure

Uta Francke (Chairperson): Non-random chromosomal rearrangements in tumors
Eva Eicher: Organization of mammalian chromosomal DNA
Jack Spira: *
Robert Bassin: Cellular mutants resistant to the action of specific oncogenes

(Thursday a.m.)

Session VII: Proteins Related to Transformation

Tony Hunter (Chairperson): Transformation dependent proteins
Esther Chang: The p21 ras viral and cellular oncogenes
George Todaro: Transforming growth factors
David Livingston: SV40 T antigens

(Thursday p.m.)

Session VIII: Gene Transfer

Howard Temin (or Gary Tarpley): Insertion of Oncogenes Into Retrovirus Vectors
Ming-Fan Law: Use of Bovine Papillomavirus DNA as a eukaryotic cloning vector
Mario Capecchi: Gene Transfer via micro-injection

(Friday a.m.)

Session IX: Transforming Genes and Differentiation

Thomas Graf (Chairperson): Mechanism of leukemogenesis as analyzed with temperature-sensitive mutants of defective avian leukemia viruses
Naomi Rosenberg: On the role of the abl oncogene in differentiation and transformation
Inder Verma: Structure and expression of the fos oncogene
F. Michael Hoffman: Cellular oncogenes in drosophila

* Title of presentation not yet available.

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